

High-speed Dispenser





High-speed, High-accuracy, and Stable Dispensing



High-speed Dispenser for High-density & High-precision Mounting

High-speed Dispenser



High speed & precision dispensing

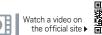
Top-class speed and accuracy in the industry maximize both production quantities and product quality.

Versatility

A wide range of functions that meet customers' needs enable the machine to flexibly be deployed to various production sites.

Labor savings

Automating and supporting routine work reduces workloads and human error.









Feature

High-speed, High-precision Dispensing

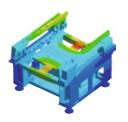
Achieving high-level speed, accuracy, and stability realizes high productivity

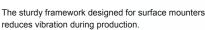
High speed

Dispensing cycle time 0.07s/shot

High accuracy

Dispensing accuracy ± 0.05 mm, Cpk ≥ 1.0





Stable dispensing

A heater unit provides high-precision temperature control to maintain constant dispensing fluid conditions, which achieves stable fluid supply.

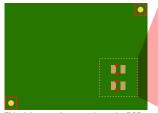
The universal-type high-precision dispense head allows for independent Z- and R-axis servo control, while supporting various types of fluids.





Accurate dispensing on various types of PCBs

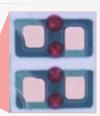
When using multiple production PCBs with transfer pallets, large PCBs prone to generating expansion/contraction and distortion, or paper phenol PCBs, this machine detects multiple marks and locally corrects positions to perform high-precision dispensing.



Fiducial correction over the entire PCB Position accuracy is low when dispensing on PCBs having poor accuracy, such as large PCBs and paper phenol PCBs.



Fiducial correction using local marks Setting individual local marks enables high-accuracy dispensing even on PCBs having poor accuracy.



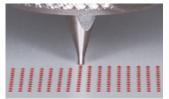


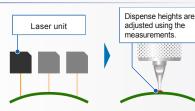
Feature

Versatility

Flexibly dispensing on various types of PCBs

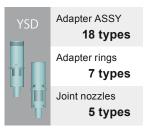
To apply fluids on high-density PCBs that inhibit contact coating, depressions on PCBs, and component mounting PCBs, non-contact dispensing is available. The PCB surface is measured with a laser beam to obtain heights and warps of unevenness, which are reflected in dispense heights to prevent the generation of defects.





Using common components to improve workability

Compatible with various syringes from 5 to 30 cc. Workload and storage complexity are minimized through the use of common attachments for each manufacturer and each volume.

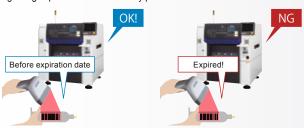






Accurate and reliable control of usage expiration dates

Records storage and retrieval of dispense fluids to accurately control usage expiration dates. Issues cautions to operators during setup and production regarding expiration dates to reliably prevent the use of old fluids.

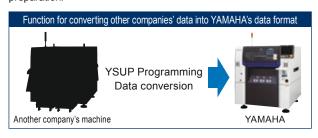


Feature

Labor Savings

Automatic and easy data generation

Automatically converts CAD data into dispense data. Simplified data generation work reduces the time needed for production preparation.



Automatic correction improves stability

Recognizes the dispensing diameter by pre-dispense to automatically control the dispensing amounts. Minimization of work stabilizes the dispensing accuracy.



Timely and efficient supply

Uses a sensor to detect the remaining amount of dispense fluid in the syringe in order to dispatch an empty alert. Supports replenishment at the appropriate time.



Excellent cleanability shortens cleaning times

The nozzle is directly mounted on the syringe. This makes maintenance tasks such as cleaning easy.





1 STOP SMART SOLUTION

High-efficiency, defect-free production, made possible as Yamaha is a manufacturer of inspection system, solder-paste printer and surface mounter.

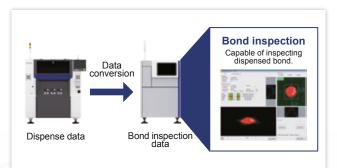
Improves operational efficiency by visualizing the production line

Helps to identify and locate problem sources by visualizing the entire production line in real time. Early detection of problems in the line and on the floor minimizes their impacts on product quality and production progress.



Reduces workloads by automatic data conversion

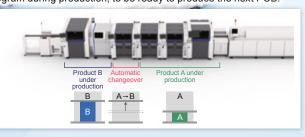
Automatically converts dispense data into bond inspection data via SPI, which reduces operators' workloads.





Seamless automatic switching of production types for efficient multi-production.

Automatic change-over function automatically switches production program during production, to be ready to produce the next PCB.





SEMI SMT-ELS Capable

Compatible with SEMI SMT-ELS Communication Standards (option). Achieves seamless connection for, for example, Auto Program Change-Over, with other companies' machines.

Specifications Note: Specifications and appearance are subject to change without prior notice.

Model	YRM-D
Dispensing method	Air-pulsed type
Dispensing capability	0.07s/shot ^{Note 1}
Dispensing accuracy	±0.05mm Cpk≧1.0
Applicable PCB	L50 x W50mm to L510 x W460mm
Power supply	3-Phase AC 200/208/220/240/380/400/416V ±10% 50/60Hz
Air supply source	Over 0.45 MPa, clean and dry state
External dimension	L1,254 x W1,440 x H1,445mm
Weight	Approx. 1,200kg
Laser Class	Class 1 Laser Product (IEC60825-1,FDA (CDRH) Part 1040.10)
Note 4 - Hoder our entirely and analities	

Note 1: Under our optimized conditions

Yamaha Motor Europe N.V. Niederlassung Deutschland, Geschäftsbereich Robotik German Branch Office, Robotics Business Hansemannstrasse 12 · 41468 Neuss · Germany Tel: +49-2131-2013520 ymerobotics.info@yamaha-motor.de www.yamaha-motor-robotics.eu

The models shown in the photographs in this catalog may differ slightly from the standard specifications. Specifications and appearance are subject to change without prior notice

Yamaha Motor Co. Ltd., Head office Robotics Operation 127 Toyooka, Kita-ku, Hamamatsu, Shizuoka 433-8103, Japan, Tel: 81-53-525-7061

Yamaha Motor IM (Suzhou) Co. Ltd. #8 Building No.17 East Suhong Road, Suzhou Industrial Park, China 215026, Tel: 86-512-6831-7091 Yamaha Motor IM (Suzhou) Co. Ltd., Shenzhen Branch, 1/F, Bd. 1, Yesun Intelligent Community, Guanguang Rd. 1301-70, Guanlan St, Longhua District Shenzhen, Guangdong, P.R.C. China, Tel: 86-755-2393-9910 Yamaha Motor Corporation, U.S.A., IM Division (USA office)

3065 Chastain Meadows Parkway Marietta, GA 30066, Tel: 1-770-420-5825

Thai Yamaha Motor Co. Ltd. (Thailand Office), 64 Moo1, Debaratana Rd., Km 21, Tambol Srisa Jorrake Yai, Amphur Bangsaothong, Samutprakarn 10570, Thailand, Tel: 66-96-779-7680 Yamaha Motor Parts Manufacturing Vietnam Co. Ltd. (Vietnam Office)

Lot G1-G2, Thang Long Industrial Park, Vong La Com, Dong Anh Dist, Hanoi, Vietnam, Tel: 84-24-3951-6456